

Fig. 1

Structure of gp100-209 epitope concatamer

Concatamer of Gp100-209 epitope was generated using the following strategy.

Concatomer Primers

1. GP100-209 forward

5'
ATTACTGACC AGGTACCTTT CTCCGTG

2. GP linker

5'
TGGTCAGTAA TCACGGAGAA AGGTACCT

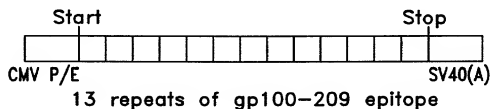
3. Start primer (Eco RV) 30 mer 46% GC

5'
GGCC GATATC ATGATTACTG ACCAGGTACC

4. Stop Primer (Spe) 30 mer 53% GC

5'
GGCC ACTAGT GATCACGGAG AAAGGTACCT

Structure of gp100-209 epitope concatamer expression cassette



Gp100-209 epitope sequence

5' ATTACTGACCAGGTACCTTTCTCCGTG 3'
3' TAATGACTGGTCCATGGAAGAGGCAC 5'

Fig. 2A

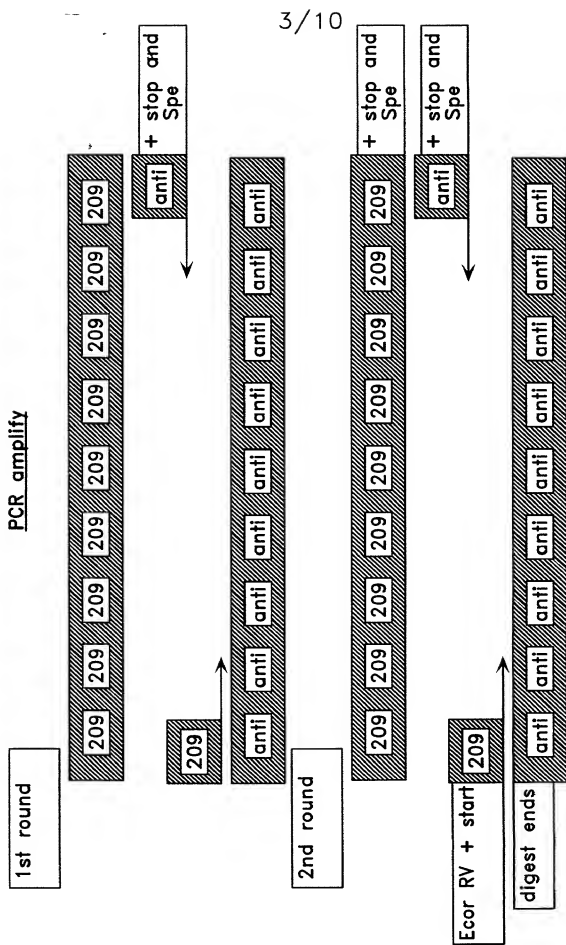


Fig. 2B

gp209 epitope construct

Pak1 AATC	KZK CCACC	ST ATG	3Ala GCGGCCGC	gp209 AATTACTGACCACTACCTTCCTCCGTG	3Ala CTGGAC	MART-1 CTGCTGGTATGGATTATTAACGTG	3Ala GCGGGG	Pac1 TTATTAATTAAAC
			Not 1			Pst1	SacII	All stop

Fig. 3A

α-globin stability element

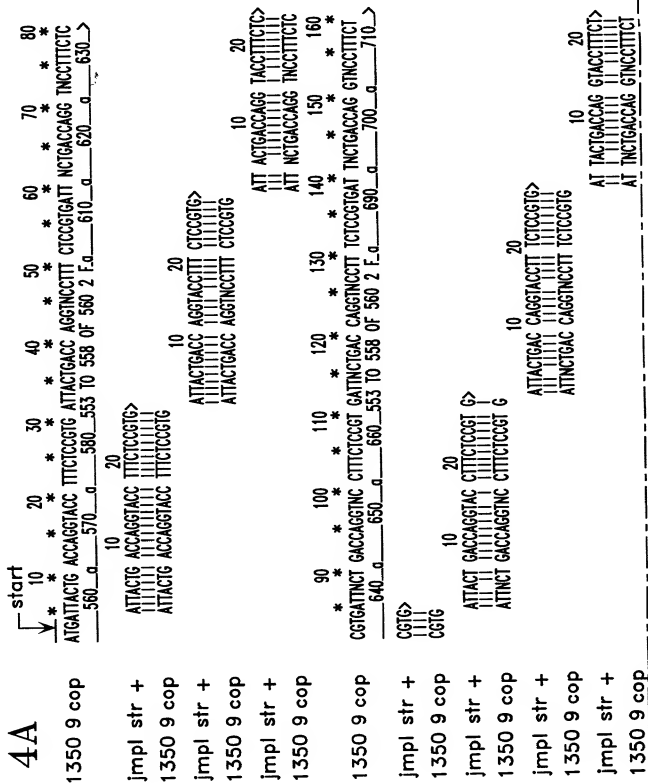
Pac1 TAA	α-globin stability element GCTGGAGCTCGGTAGCGGTTCCTCTGCGGCGCTGCGGCTCCCAACGCGGCGCTCTCCGCTCTTGACACCGGCGCTTCCTCGGTCTTGAATAAACTCTGAGTGGGCGGCT
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Fig. 3B

Fig. 4

Fig. 4A	Fig. 4B
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Fig. 4A



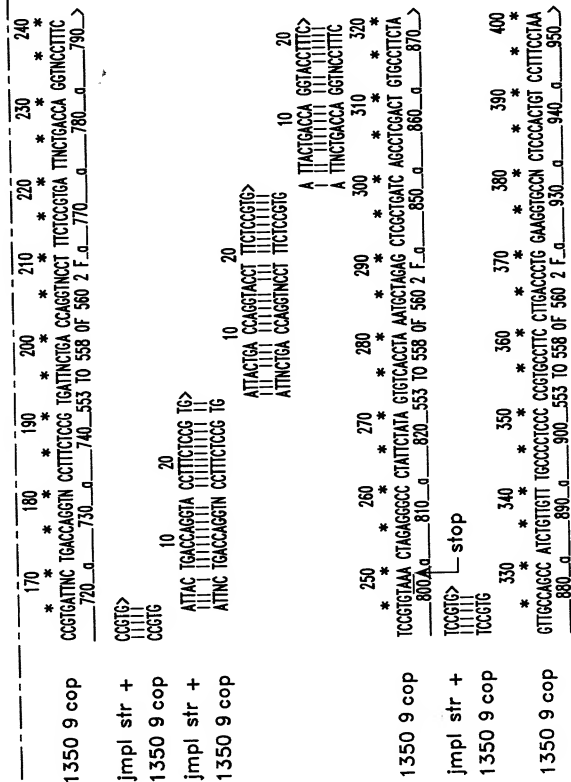
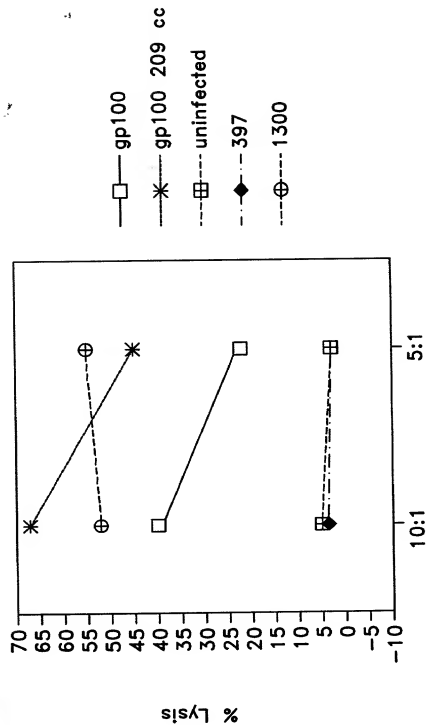


Fig. 4B

T cell mediated Lysis of gp100-209 epitope presenting cells



E:T

Fig. 5A

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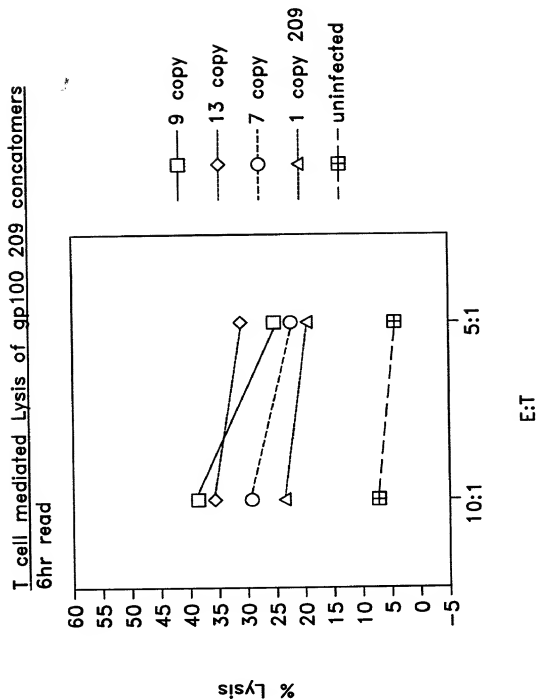


Fig. 5B